

14234800 RIFFE LAKE NEAR MOSSYROCK, WA

Lower Columbia Basin
Lower Cowlitz Subbasin

LOCATION.--Lat 46°32'07", long 122°25'25" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.10, T.12 N., R.3 E., Lewis County, WA, Hydrologic Unit 17080005, in emergency generator room on top of Mossyrock Dam on Cowlitz River, 2.8 mi east of Mossyrock, and at mile 65.5.

DRAINAGE AREA.--1,154 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1968 to current year.

REVISED RECORDS.--WDR WA-74-1: 1973.

GAGE.--Water-stage recorder; nonrecording gage prior to July 25, 1968. Datum of gage is NGVD of 1929 (levels by City of Tacoma).

REMARKS.--Reservoir is formed by concrete arch dam, completed in April 1968; storage began Apr. 3, 1968. Useable capacity, 1,297,400 acre-ft between elevations 600 ft, minimum operating level, and 770 ft, normal operating pool. Unused storage below elevation 600 ft, 288,900 acre-ft. Crest of spillway is at elevation 728.5 ft and top of taintor gates are at elevation 778.5 ft. Water used by City of Tacoma for power generation. Figures given herein represent total contents. Capacity table furnished by City of Tacoma. Chemical analyses December 1973 to September 1983 (samples were taken near the dam).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,686,300 acre-ft, July 31, 1972, elevation, 778.63 ft; minimum contents since normal low operating level was attained, 517,233 acre-ft, Mar. 9, 2001, elevation, 644.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,678,026 acre-ft, July 28, elevation, 777.93 ft; minimum contents, 863,232 acre-ft, Feb. 29, elevation 694.08 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	745.02	1,321,765	--
October 31	736.71	1,240,403	-81,362
November 30	729.06	1,167,925	-72,478
December 31	729.96	1,176,345	+8,420
Calendar Year 2007	--	--	-76,211
January 31	715.98	1,048,784	-127,561
February 29	694.24	864,520	-184,264
March 31	699.44	906,894	+42,374
April 30	699.94	911,024	+4,130
May 31	760.52	1,481,879	+570,855
June 30	774.32	1,635,815	+153,936
July 31	777.69	1,675,198	+39,383
August 31	767.07	1,553,439	-121,759
September 30	745.87	1,330,253	-223,186
Water Year 2008	--	--	+8,488